

L6 ANSWER 60 OF 93 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1985:187466 CAPLUS

DN 102:187466

OREF 102:29397a,29400a

TI Dissolution of tellurium powder in aqueous hydrogen peroxide

PA Nitto Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59227703	A	19841221	JP 1983-100252	19830607
PRAI	JP 1983-100252		19830607		

AB Powdered Te is dissolved in HCl or HNO<sub>3</sub> and reduced with SO<sub>2</sub>, or distilled or electrolyzed to contain Ag and Cu ≤0.02% each, powdered to average <300 μ, and dissolved in aqueous H<sub>2</sub>O<sub>2</sub> 3-10 mols/g atom Te in the presence of ≥1 of NH<sub>4</sub><sup>+</sup>, alkali metal ions, oxides, oxy acids, their salts, heteropoly acids, and their salts of V, Mo, and W, and HNO<sub>3</sub>. The solution is especially suitable for preparation of a heteropoly acid catalyst for the oxidation of hydrocarbons. Thus, 6.4 g Te <300 μ containing Cu 0.001 and Ag 0.0005% was stirred in 60 mL H<sub>2</sub>O containing 1.8 g NH<sub>4</sub> paramolybdate at 90° and mixed dropwise with 14.2 mL 35% H<sub>2</sub>O<sub>2</sub> to obtain a clear solution in 4 min.